

**Flood Control Project Maintenance
Levee Inspections**

Fall 2013 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

RD0341	Overall LMA Rating	Total LMA Miles							
Reclamation District No. 0341 Sherman Island	U	9.62							
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence		
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
Earthen Levee									
Vegetation	4.99		4.99	51.87%					
Encroachments					0.20	0.01			
Supplemental									
USACE Erosion Survey	0.04	0.29	1.20	12.47%					
LMA Totals:	5.03	0.29	6.19	64.35%	0.20	0.01	0.00	0.00	

Unit No. 01 Threemile Slough RB	Overall Unit Rating	Total Unit Miles							
RD0341	M	3.34							
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence		
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
Earthen Levee									
Vegetation	0.48		0.48	14.37%					
Encroachments					0.01				
Unit Totals:	0.48	0.00	0.48	14.37%	0.01	0.00	0.00	0.00	

Unit No. 02 Sacramento River LB	Overall Unit Rating	Total Unit Miles							
RD0341	U	6.28							
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence		
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
Earthen Levee									
Vegetation	4.51		4.51	71.82%					
Encroachments					0.19	0.01			
Supplemental									
USACE Erosion Survey	0.04	0.29	1.20	19.11%					
Unit Totals:	4.55	0.29	5.71	90.92%	0.19	0.01	0.00	0.00	

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2013 Levee Inspection Results

Reclamation District No. 0341 Sherman Island

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			U	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Reclamation District No. 0341 Sherman Island

Waterway			Bank	Unit Miles
Unit No. 01 Threemile Slough			Right	3.34
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	03/19/2013 - 03/19/2013		09/17/2013 - 09/17/2013	
DWR Inspector	Herman Phillips		Herman Phillips	
Accompanied By	Joel Mc Elroy RD 341			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0341 Sherman Island

Waterway					Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough					Right	3.34	09/17/2013 09/17/2013	Herman Phillips

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1			Earthen Levee	Operations & Maintenance Manuals	LS	A Ma		°	°	4
DWR ID: DWR_RD0341_01_s_2013_4										
2			Earthen Levee	Emergency Supplies & Equipment	LS	A Ma		°	°	5
DWR ID: DWR_RD0341_01_s_2013_5										
3			Earthen Levee	Flood Preparedness & Training	LS	A Ma		°	°	6
DWR ID: DWR_RD0341_01_s_2013_6										
4	0.00	0.00	Earthen Levee	Vegetation	LS	A Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	38.085435 ° -121.686431 °	38.085435 ° -121.686430 °	43 Y
DWR ID: DWR_RD0341_01_f_2013_43										
5	0.00	0.02	Earthen Levee	Vegetation	WS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.085583 ° -121.686486 °	38.085865 ° -121.686670 °	44 Y
DWR ID: DWR_RD0341_01_f_2013_44										
6	0.02	0.29	Earthen Levee	Vegetation	WS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.085866 ° -121.686669 °	38.089740 ° -121.686977 °	45
DWR ID: DWR_RD0341_01_f_2013_45										
7	0.75	0.94	Earthen Levee	Vegetation	WS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	38.096390 ° -121.686963 °	38.099107 ° -121.687057 °	46
DWR ID: DWR_RD0341_01_f_2013_46										
8	3.32	3.32	Earthen Levee	Encroachments	LS	M En	TR : Tree or limb	38.105252 ° -121.702273 °	38.105252 ° -121.702273 °	47
DWR ID: DWR_RD0341_01_f_2013_47										

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0341 Sherman Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Right	3.34	09/17/2013 09/17/2013	Herman Phillips

Levee Mile Report Line	4
Start Levee Mile	0.00
End Levee Mile	0.00
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Unit 1 RD 341 Landside looking downstream.
Photo taken 9-17-2013.

phillips_f_20130917_446.JPG



Levee Mile Report Line	5
Start Levee Mile	0.00
End Levee Mile	0.02
Location	Water Side
Category	Earthen Levee
Item	Vegetation

RD 341 Bambo waterside levee mile 0.00. Photo taken 9-17-2013.

phillips_f_20130917_447.JPG



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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2013 Levee Inspection Results

Reclamation District No. 0341 Sherman Island

Waterway			Bank	Unit Miles
Unit No. 02 Sacramento River			Left	6.28
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	03/13/2013 - 03/13/2013		09/17/2013 - 09/17/2013	
DWR Inspector	Herman Phillips		Herman Phillips	
Accompanied By	Mr. Joel McElroy RD 341			

Summer & Winter Inspections

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0341 Sherman Island

Waterway				Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River				Left	6.28	09/17/2013 09/17/2013	Herman Phillips

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
1	3.35	3.35	Earthen Levee	Encroachments	LS	M En	TR : Tree or limb	38.105304 ° -121.702653 °	38.105304 ° -121.702653 °	67
								DWR ID: DWR_RD0341_02_f_2013_67		
2	3.36	3.36	Earthen Levee	Vegetation	WS	A Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	° °	° °	72 Y
								DWR ID: DWR_RD0341_02_f_2013_72		
3	3.78	3.78	Earthen Levee	Encroachments	WS	U En	TR : Tree or limb	38.100350 ° -121.706294 °	38.100350 ° -121.706294 °	68 Y
								DWR ID: DWR_RD0341_02_f_2013_68		
4	3.93	5.29	Earthen Levee	Vegetation	WS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	38.098239 ° -121.706280 °	38.082080 ° -121.716022 °	70
								DWR ID: DWR_RD0341_02_f_2013_70		
5	3.93	5.03	Earthen Levee	Vegetation	LS	M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.	38.098281 ° -121.706340 °	38.083249 ° -121.711448 °	69
								DWR ID: DWR_RD0341_02_f_2013_69		
6	3.97	4.03	Earthen Levee	Vegetation	WS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Remove the bamboo from levee section, this growth will block visibility of the levee slopes.	38.097678 ° -121.706170 °	38.096783 ° -121.706173 °	73
								DWR ID: DWR_RD0341_02_f_2013_73		
7	4.15	4.19	Supplemental	USACE Erosion Survey	WS	M Ma	Inspector Comments: 2011 - Large new erosion pocket probably hidden by vegetation in the past. 2012: No observed change. [2012 Site ID: SAC_8-2_L]	38.095148 ° -121.706367 °	38.094590 ° -121.706393 °	4 Y
								DWR ID:		
8	4.46	5.04	Earthen Levee	Vegetation	WS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.090363 ° -121.706227 °	38.083138 ° -121.711478 °	1
								DWR ID: DWR_RD0341_02_f_2012_1		
9	4.52	4.60	Supplemental	USACE Erosion Survey	WS	U Ma	Inspector Comments: 1999 - New small slump in eroded bank. 2005 - Reach extended because of vertical bank along the roadway upstream. 2011 - More slumping since last year. 2012: Site upgraded to critical. Very steep slope which may be effecting the highway on top of the levee. [2012 Site ID: SAC_8-0_L]	38.090620 ° -121.706684 °	38.088572 ° -121.707127 °	5 Y
								DWR ID:		
10	4.73	4.81	Supplemental	USACE Erosion Survey	WS	U Ma	Inspector Comments: 2011 - Large slump section 2012: Site extended downstream, upgrade to critical, severe windwave. Slope is very steep and may be effecting the highway on top of the levee. [2012 Site ID: SAC_7-9_L]	38.086603 ° -121.707786 °	38.085459 ° -121.708607 °	7 Y
								DWR ID:		
11	5.25	5.86	Earthen Levee	Vegetation	WS	M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.082194 ° -121.715246 °	38.080228 ° -121.726459 °	2
								DWR ID: DWR_RD0341_02_f_2012_2		
12	5.96	6.09	Supplemental	USACE Erosion Survey	WS	U Ma	Inspector Comments: 2011 - Large slump at downstream end. Gully formed from surface runoff from the road. Shallow slumping throughout site. 2012: The gully at upstream end has increased in size and site continues to worsen. [2012 Site ID: SAC_7-3_L]	38.080370 ° -121.728341 °	38.080526 ° -121.730483 °	8 Y
								DWR ID:		

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0341 Sherman Island

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 02 Sacramento River						Left	6.28	09/17/2013 09/17/2013	Herman Phillips	

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No.
	Start	End						Start	End	Photo
13	6.11	6.23	Earthen Levee	Vegetation	LS	M _{Ma}	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.080557 ° -121.730987 °	38.081095 ° -121.733198 °	71
DWR ID: DWR_RD0341_02_f_2013_71										
14	6.32	7.00	Earthen Levee	Vegetation	WS	M _{Ma}	V2 : Remove the wild growth other than native grasses from the levee slopes.	38.082266 ° -121.730401 °	38.078770 ° -121.744280 °	3
DWR ID: DWR_RD0341_02_f_2012_3										
15	7.92	8.10	Earthen Levee	Encroachments	LS	M _{En}	FE : Fence	38.073268 ° -121.759500 °	38.072275 ° -121.762510 °	6
DWR ID: DWR_RD0341_02_s_2012_6										

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0341 Sherman Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	09/17/2013 09/17/2013	Herman Phillips

Levee Mile Report Line	2
Start Levee Mile	3.36
End Levee Mile	3.36
Location	Water Side
Category	Earthen Levee
Item	Vegetation

RD 341 Looking downstream from levee mile 3.36 waterside slope Unit 2. Photo taken 9-17-2013.

phillips_f_20131126_700.JPG



Levee Mile Report Line	3
Start Levee Mile	3.78
End Levee Mile	3.78
Location	Water Side
Category	Earthen Levee
Item	Encroachments

RD 341 Fallen tree limb water ward shoulder/crown. Photo taken 9-17-2013.

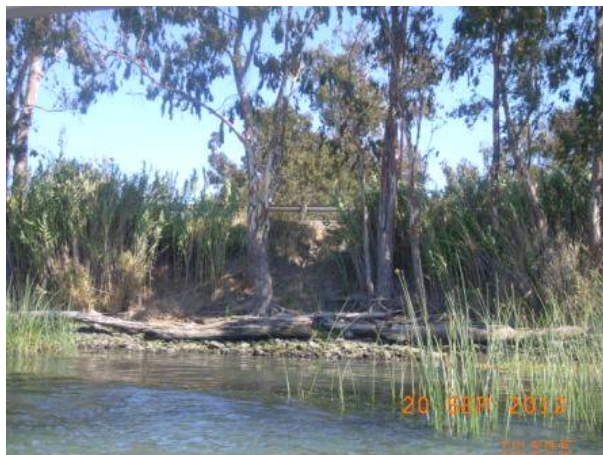
phillips_f_20130917_448.JPG



Levee Mile Report Line	7
Start Levee Mile	4.15
End Levee Mile	4.19
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1

USACE2013_SAC_8-2_L_1.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0341 Sherman Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	09/17/2013 09/17/2013	Herman Phillips

Levee Mile Report Line	9
Start Levee Mile	4.52
End Levee Mile	4.60
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1

USACE2013_SAC_8-0_L_1.jpg



Levee Mile Report Line	9
Start Levee Mile	4.52
End Levee Mile	4.60
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2

USACE2013_SAC_8-0_L_2.jpg



Levee Mile Report Line	9
Start Levee Mile	4.52
End Levee Mile	4.60
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #3

USACE2013_SAC_8-0_L_3.jpg

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0341 Sherman Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	09/17/2013 09/17/2013	Herman Phillips

Levee Mile Report Line	9
Start Levee Mile	4.52
End Levee Mile	4.60
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #4

USACE2013_SAC_8-0_L_4.jpg



Levee Mile Report Line	10
Start Levee Mile	4.73
End Levee Mile	4.81
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1

USACE2013_SAC_7-9_L_1.jpg



Levee Mile Report Line	10
Start Levee Mile	4.73
End Levee Mile	4.81
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2

USACE2013_SAC_7-9_L_2.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2013

Reclamation District No. 0341 Sherman Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	09/17/2013 09/17/2013	Herman Phillips

Levee Mile Report Line	12
Start Levee Mile	5.96
End Levee Mile	6.09
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #1

USACE2013_SAC_7-3_L_1.jpg



Levee Mile Report Line	12
Start Levee Mile	5.96
End Levee Mile	6.09
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2012 Photo #2

USACE2013_SAC_7-3_L_2.jpg



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